

11AA_SEQUENCE 1.0
ID AAG47089 standard; protein; 1176 AA.
XX AAG47089;
AC
XX
XX 18-OCT-2000 (first entry)
DE Arabidopsis thaliana protein fragment SEQ ID NO: 59313.
XX
XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridization assay; genetic mapping; gene expression control; promoter;
KM termination sequence.
XX
XX Arabidopsis thaliana.
OS
XX
XX EP1033405-A2.
XX
XX
XX 06-SEP-2000.
XX
XX
XX 25-FEB-2000; 200EP-00301439.
XX
XX
PR 25-FEB-1999; 99US-0121825P.
PR 05-MAR-1999; 99US-0123180P.
PR 09-MAR-1999; 99US-0123548P.
PR 23-MAR-1999; 99US-0125788P.
PR 25-MAR-1999; 99US-0126264P.
PR 29-MAR-1999; 99US-0126785P.
PR 01-APR-1999; 99US-0127462P.
PR 06-APR-1999; 99US-0128234P.
PR 08-APR-1999; 99US-0128714P.
PR 16-APR-1999; 99US-0128945P.
PR 19-APR-1999; 99US-0130077P.
PR 21-APR-1999; 99US-0130449P.
PR 23-APR-1999; 99US-0130510P.
PR 23-APR-1999; 99US-0130891P.
PR 28-APR-1999; 99US-0131449P.
PR 30-APR-1999; 99US-0132048P.
PR 30-APR-1999; 99US-0132407P.
PR 04-MAY-1999; 99US-0132484P.
PR 05-MAY-1999; 99US-0132485P.
PR 06-MAY-1999; 99US-0132486P.
PR 06-MAY-1999; 99US-0132487P.
PR 07-MAY-1999; 99US-0132863P.
PR 11-MAY-1999; 99US-0133425P.
PR 14-MAY-1999; 99US-0134218P.
PR 14-MAY-1999; 99US-0134219P.
PR 14-MAY-1999; 99US-0134221P.
PR 14-MAY-1999; 99US-0134370P.
PR 18-MAY-1999; 99US-0134768P.
PR 19-MAY-1999; 99US-0134941P.
PR 20-MAY-1999; 99US-0135124P.
PR 21-MAY-1999; 99US-0135353P.
PR 24-MAY-1999; 99US-0135629P.
PR 25-MAY-1999; 99US-0136021P.
PR 27-MAY-1999; 99US-0136392P.
PR 28-MAY-1999; 99US-0136782P.
PR 01-JUN-1999; 99US-0137222P.
PR 03-JUN-1999; 99US-0137528P.
PR 04-JUN-1999; 99US-0137502P.
PR 07-JUN-1999; 99US-0137724P.
PR 08-JUN-1999; 99US-0138094P.
PR 10-JUN-1999; 99US-0138540P.
PR 10-JUN-1999; 99US-0138647P.
PR 14-JUN-1999; 99US-0139119P.
PR 16-JUN-1999; 99US-0139452P.
PR 16-JUN-1999; 99US-0139453P.
PR 17-JUN-1999; 99US-0139492P.
PR 18-JUN-1999; 99US-0139454P.
PR 18-JUN-1999; 99US-0139455P.
PR 18-JUN-1999; 99US-0139456P.
PR 18-JUN-1999; 99US-0139457P.
PR 18-JUN-1999; 99US-0139458P.
PR 18-JUN-1999; 99US-0139459P.

PR 18-JUN-1999; 99US-0139460P.
PR 18-JUN-1999; 99US-0139461P.
PR 18-JUN-1999; 99US-0139462P.
PR 18-JUN-1999; 99US-0139463P.
PR 18-JUN-1999; 99US-0139750P.
PR 18-JUN-1999; 99US-0139753P.
PR 21-JUN-1999; 99US-0139817P.
PR 22-JUN-1999; 99US-0139899P.
PR 23-JUN-1999; 99US-0140035P.
PR 23-JUN-1999; 99US-0140035P.
PR 24-JUN-1999; 99US-0140695P.
PR 28-JUN-1999; 99US-0140823P.
PR 29-JUN-1999; 99US-0140991P.
PR 30-JUN-1999; 99US-0141287P.
PR 01-JUL-1999; 99US-0141842P.
PR 01-JUL-1999; 99US-0142154P.
PR 02-JUL-1999; 99US-0142055P.
PR 06-JUL-1999; 99US-0142390P.
PR 08-JUL-1999; 99US-0142803P.
PR 09-JUL-1999; 99US-0142920P.
PR 12-JUL-1999; 99US-0142977P.
PR 13-JUL-1999; 99US-0143542P.
PR 14-JUL-1999; 99US-0143624P.
PR 15-JUL-1999; 99US-0144005P.
PR 16-JUL-1999; 99US-0144085P.
PR 16-JUL-1999; 99US-0144086P.
PR 19-JUL-1999; 99US-0144325P.
PR 19-JUL-1999; 99US-0144331P.
PR 19-JUL-1999; 99US-0144332P.
PR 19-JUL-1999; 99US-0144333P.
PR 19-JUL-1999; 99US-0144334P.
PR 19-JUL-1999; 99US-0144335P.
PR 20-JUL-1999; 99US-0144352P.
PR 20-JUL-1999; 99US-0144632P.
PR 20-JUL-1999; 99US-0144884P.
PR 21-JUL-1999; 99US-0144814P.
PR 21-JUL-1999; 99US-0145086P.
PR 21-JUL-1999; 99US-0145088P.
PR 22-JUL-1999; 99US-0145085P.
PR 22-JUL-1999; 99US-0145087P.
PR 22-JUL-1999; 99US-0145089P.
PR 22-JUL-1999; 99US-0145192P.
PR 23-JUL-1999; 99US-0145145P.
PR 23-JUL-1999; 99US-0145218P.
PR 23-JUL-1999; 99US-0145224P.
PR 26-JUL-1999; 99US-0145275P.
PR 27-JUL-1999; 99US-0145913P.
PR 27-JUL-1999; 99US-0145918P.
PR 27-JUL-1999; 99US-0145919P.
PR 28-JUL-1999; 99US-0145951P.
PR 02-AUG-1999; 99US-0146386P.
PR 02-AUG-1999; 99US-0146388P.
PR 03-AUG-1999; 99US-0146389P.
PR 04-AUG-1999; 99US-0147038P.
PR 04-AUG-1999; 99US-0147204P.
PR 05-AUG-1999; 99US-0147302P.
PR 05-AUG-1999; 99US-0147192P.
PR 05-AUG-1999; 99US-0147260P.
PR 06-AUG-1999; 99US-0147303P.
PR 06-AUG-1999; 99US-0147416P.
PR 09-AUG-1999; 99US-0147493P.
PR 09-AUG-1999; 99US-0147935P.
PR 10-AUG-1999; 99US-0148171P.
PR 11-AUG-1999; 99US-0148319P.
PR 12-AUG-1999; 99US-0148341P.
PR 13-AUG-1999; 99US-0148565P.
PR 13-AUG-1999; 99US-0148684P.
PR 16-AUG-1999; 99US-0149368P.
PR 17-AUG-1999; 99US-0149175P.
PR 18-AUG-1999; 99US-0149425P.
PR 20-AUG-1999; 99US-0149722P.
PR 20-AUG-1999; 99US-0149723P.
PR 20-AUG-1999; 99US-0149929P.

PR 23-AUG-1999; 99US-0149902P.
PR 23-AUG-1999; 99US-0149930P.
PR 25-AUG-1999; 99US-0150566P.
PR 26-AUG-1999; 99US-0150884P.
PR 27-AUG-1999; 99US-0151065P.
PR 27-AUG-1999; 99US-0151066P.
PR 30-AUG-1999; 99US-0151080P.
PR 31-AUG-1999; 99US-0151303P.
PR 01-SEP-1999; 99US-0151438P.
PR 07-SEP-1999; 99US-0151930P.
PR 10-SEP-1999; 99US-0152363P.
PR 13-SEP-1999; 99US-0153070P.
PR 15-SEP-1999; 99US-0153758P.
PR 16-SEP-1999; 99US-0154039P.
PR 20-SEP-1999; 99US-0154779P.
PR 22-SEP-1999; 99US-0155139P.
PR 23-SEP-1999; 99US-0155486P.
PR 24-SEP-1999; 99US-0155659P.
PR 28-SEP-1999; 99US-0156458P.
PR 29-SEP-1999; 99US-015656P.
PR 04-OCT-1999; 99US-0157117P.
PR 05-OCT-1999; 99US-0157753P.
PR 06-OCT-1999; 99US-0157865P.
PR 07-OCT-1999; 99US-0158029P.
PR 08-OCT-1999; 99US-0158232P.
PR 12-OCT-1999; 99US-0158369P.
PR 13-OCT-1999; 99US-0158293P.
PR 13-OCT-1999; 99US-0159294P.
PR 13-OCT-1999; 99US-0159295P.
PR 14-OCT-1999; 99US-0159329P.
PR 14-OCT-1999; 99US-0159330P.
PR 14-OCT-1999; 99US-0159331P.
PR 14-OCT-1999; 99US-0159637P.
PR 14-OCT-1999; 99US-0159638P.
PR 18-OCT-1999; 99US-0159584P.
PR 21-OCT-1999; 99US-0160741P.
PR 21-OCT-1999; 99US-0160767P.
PR 21-OCT-1999; 99US-0160768P.
PR 21-OCT-1999; 99US-0160770P.
PR 21-OCT-1999; 99US-0160814P.
PR 21-OCT-1999; 99US-0160815P.
PR 22-OCT-1999; 99US-0160980P.
PR 22-OCT-1999; 99US-0160981P.
PR 22-OCT-1999; 99US-0160989P.
PR 25-OCT-1999; 99US-0161404P.
PR 25-OCT-1999; 99US-0161405P.
PR 25-OCT-1999; 99US-0161406P.
PR 26-OCT-1999; 99US-0161359P.
PR 26-OCT-1999; 99US-0161360P.
PR 26-OCT-1999; 99US-0161361P.
PR 28-OCT-1999; 99US-0161920P.
PR 28-OCT-1999; 99US-0161921P.
PR 28-OCT-1999; 99US-0161922P.
PR 28-OCT-1999; 99US-0161923P.
PR 29-OCT-1999; 99US-0162142P.
PR 29-OCT-1999; 99US-0162143P.
PR 29-OCT-1999; 99US-0162228P.
PR 01-NOV-1999; 99US-0162891P.
PR 01-NOV-1999; 99US-0162894P.
PR 01-NOV-1999; 99US-0162895P.
PR 02-NOV-1999; 99US-0163091P.
PR 02-NOV-1999; 99US-0163092P.
PR 02-NOV-1999; 99US-0163093P.
PR 03-NOV-1999; 99US-0163248P.
PR 03-NOV-1999; 99US-0163249P.
PR 03-NOV-1999; 99US-0163249P.
PR 04-NOV-1999; 99US-0163379P.
PR 04-NOV-1999; 99US-0163380P.
PR 04-NOV-1999; 99US-0163381P.
PR 08-NOV-1999; 99US-0164146P.
PR 08-NOV-1999; 99US-0164150P.
PR 08-NOV-1999; 99US-0164151P.
PR 09-NOV-1999; 99US-0164259P.

PR 09-NOV-1999; 99US-0164260P.
PR 10-NOV-1999; 99US-0164317P.
PR 10-NOV-1999; 99US-0164318P.
PR 10-NOV-1999; 99US-0164319P.
PR 10-NOV-1999; 99US-0164321P.
PR 10-NOV-1999; 99US-0164544P.
PR 10-NOV-1999; 99US-0164545P.
PR 12-NOV-1999; 99US-0164546P.
PR 12-NOV-1999; 99US-0164870P.
PR 12-NOV-1999; 99US-0164871P.
PR 12-NOV-1999; 99US-0164959P.
PR 12-NOV-1999; 99US-0164960P.
PR 12-NOV-1999; 99US-0164961P.
PR 12-NOV-1999; 99US-0164962P.
PR 15-NOV-1999; 99US-0164926P.
PR 15-NOV-1999; 99US-0164927P.
PR 16-NOV-1999; 99US-0164929P.
PR 16-NOV-1999; 99US-0165661P.
PR 16-NOV-1999; 99US-0165662P.
PR 16-NOV-1999; 99US-0165671P.
PR 17-NOV-1999; 99US-0165911P.
PR 17-NOV-1999; 99US-0165918P.
PR 18-NOV-1999; 99US-0165919P.
PR 18-NOV-1999; 99US-0166158P.
PR 18-NOV-1999; 99US-0166173P.
PR 19-NOV-1999; 99US-0166411P.
PR 19-NOV-1999; 99US-0166412P.
PR 19-NOV-1999; 99US-0166419P.
PR 22-NOV-1999; 99US-0166733P.
PR 22-NOV-1999; 99US-0166750P.
PR 23-NOV-1999; 99US-0167362P.
PR 24-NOV-1999; 99US-0167233P.
PR 24-NOV-1999; 99US-0167234P.
PR 24-NOV-1999; 99US-0167235P.
PR 30-NOV-1999; 99US-0167382P.
PR 30-NOV-1999; 99US-0167902P.
PR 30-NOV-1999; 99US-0167904P.
PR 30-NOV-1999; 99US-0167908P.
PR 01-DEC-1999; 99US-0168231P.
PR 01-DEC-1999; 99US-0168232P.
PR 01-DEC-1999; 99US-0168233P.
PR 02-DEC-1999; 99US-0168546P.
PR 02-DEC-1999; 99US-0168548P.
PR 02-DEC-1999; 99US-0168549P.
PR 03-DEC-1999; 99US-0168673P.
PR 03-DEC-1999; 99US-0168674P.
PR 07-DEC-1999; 99US-0169278P.
PR 07-DEC-1999; 99US-0169288P.
PR 07-DEC-1999; 99US-0169302P.
PR 08-DEC-1999; 99US-0169691P.
PR 08-DEC-1999; 99US-0169692P.
PR 16-DEC-1999; 99US-0171098P.
PR 16-DEC-1999; 99US-0171107P.
PR 16-DEC-1999; 99US-0171114P.
PR 19-JAN-2000; 2000US-0176866P.
PR 19-JAN-2000; 2000US-0176867P.
PR 19-JAN-2000; 2000US-0176910P.
PR 26-JAN-2000; 2000US-0178166P.
PR 27-JAN-2000; 2000US-0177666P.
PR 27-JAN-2000; 2000US-0178544P.
PR 27-JAN-2000; 2000US-0178545P.
PR 27-JAN-2000; 2000US-0178546P.
PR 27-JAN-2000; 2000US-0178547P.
PR 28-JAN-2000; 2000US-0178754P.
PR 28-JAN-2000; 2000US-0178755P.
PR 01-FEB-2000; 2000US-0179388P.
PR 01-FEB-2000; 2000US-0179395P.
PR 03-FEB-2000; 2000US-0180039P.
PR 03-FEB-2000; 2000US-0180139P.
PR 04-FEB-2000; 2000US-0180206P.
PR 04-FEB-2000; 2000US-0180207P.

PR 07-FEB-2000; 2000US-0180695P.
PR 07-FEB-2000; 2000US-0180696P.
PR 09-FEB-2000; 2000US-0181214P.
PR 09-FEB-2000; 2000US-0181228P.
PR 10-FEB-2000; 2000US-0181476P.
PR 10-FEB-2000; 2000US-0181551P.
PR 15-FEB-2000; 2000US-0182477P.
PR 15-FEB-2000; 2000US-0182478P.
PR 15-FEB-2000; 2000US-0182512P.
PR 15-FEB-2000; 2000US-0182516P.
PR 17-FEB-2000; 2000US-0183165P.
PR 17-FEB-2000; 2000US-0183166P.
XX
XX (CERE-) CERES INC.
XX
XX Alexandrov N, Brover V, Chen X, Subramanian G, Troukhan ME;
P1 Zheng L, Dumas J;
XX
XX MPI; 2000-507395/46.
DR N-PSDB; AAC48934.
XX
XX
PT New sequence determined DNA fragments (SDFs) from different plant
PT species, e.g. corn, rice or Arabidopsis thaliana, useful as promoters,
PT protein coding sequences, untranslated regions, or as 3' termination
PT sequences.
XX
XX
P8 Claim 19; SEQ ID NO 59313; 344bp + Sequence Listing; English.
XX
XX The present sequence is a putative protein fragment from Arabidopsis
CC thaliana. Its coding sequence was isolated by carrying out RT-PCR on all
CC of the mRNA obtained from the plant, and creating a cDNA library which
CC could then be sequenced, allowing the putative protein sequence(s) to be
CC obtained. This sequence may be useful for protein identification and for
CC aiding in the elucidation of signal transduction and metabolic pathways.
CC Its coding sequence has a use in the control of gene expression as a
CC promoter, coding sequence, 3'UTR or termination sequence, for controlling
CC the behaviour of a gene within the chromosome, as a tool for use in
CC genetic mapping, including a use in hybridisation assays, for recognition
CC or isolation of similar DNA fragments, or for the identification of a
CC particular organism
CC
XX
XX Sequence 1176 AA;
XX
AAG47089 Length: 1176 June 21, 2005 13:40 Type: P Check: 2954 ..
1 MSITCEBLNL TSKAKKSSS SDDKMLKKPL FFLILGSLV IVLVMPRLG
51 RSQKETDSC NGBEKVLYRH QNVTREIHD LVSLFSDSDQ VTSFECHKES
101 SPGMWNTNYGI TCSLSVRSDK QETRGLPNL GLGHSISSTS CMCGNLEPIL
151 QQFENLBEEN HEEGLEOGLS SYLRNANWCL ILGLVLVCHKI VVSHSKARGE
201 RKEKYLQEA LAPKKQORA QTSRSGAGRW RKNILLGIL GGVSPSVWF
251 WDTNEIIMK RRETLANMCD ERAKVLDDQF NVSLNHVHAL SILVSTFHNG
301 KIPSAIDORT FEEYTERTNF ERPLTSGVAY ALKVPSERE KEKEHGMAI
351 KMETEDQTV VQDCVPENFD PAPIODEYAP VIFAQETVSH IVSVDMSGSE
401 EDRENILRAR ASGKGVLTSP FKLLKSNHLG VVITFAVYDT SLRPRATEBQ
451 RVEATIGYIG ASYDMPSLVE KLHLQALASKQ TIAVDVYDTT NTSGLIKMYG
501 SEIGDISBOH ISSLDFGDPs RNHEMHCRFK HKLPIMPTAI TPSILVLVYT
551 FLVGYILVEA INRIATVEED CQKRELKAR ABAADIAXSQ FLATVSHETR
601 TPMNGVLGML KMLMDTDLDA KQMDYAOTAH GSGKDLTSLI NEVLDAKIE
651 SGRLELENVP FDMRFILDNV SSLSGKANE KGIELAVVVS SQVPDVVVD

701 PSRFQIITN LVGNSIKFTQ ERGHIPISVH LADEVKEPIL IEDAVLKQRL
751 ALGCSSEGET VSGPAAVNAW GSMKNFTCY STSQNSDDQ KLLVTVEDTG
801 VGIPVDAQGR IFTPMQADS STSRTYGATG IGLISKRILV ELMQEMGFV
851 SERGISSTPS FTGVFGKABT NTSITKLERF DLAIQFTGL RALVIDNRNI
901 RAEVTRYEAR RLGISADIVS SLRMACTCCI SKLENLAMIL IDKDAWKEE
951 FSVLDELFTS SKVTFTRVVK IFILATSATL TERSEKSTG LIDEVVIKPL
1001 RMSVLICLQ ETLVNGKKRQ PNRQRNIGH LIREQILVY DNLVNRVYA
1051 EGALKKYGAI VTCVESGKAA LAMLKPPHF DACFMLOMP EMDGEATFR
1101 VLELEREINK KIASGEVSAB MFCKFSSMHV PILAMTADVI QATHECMKC
1151 GMDGYVSKPF EBEVLYTAVA RFEFPC